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G.SSA.1	Group subtract subtract add bits
G.SSS.1	Group subtract subtract subtract bits
G.SUB.1	Group subtract bits
G.XNOR	Group exclusive-nor
G.XOR	Group exclusive-or
G.XXX	Group three-way exclusive-or
G.ZERO	Group zero

G.AAA rd@rc,rb	←	G.BOOLEAN rd@rc,rb,0b10000000
G.AAA.1 rd@rc,rb	→	G.XXX rd@rc,rb
G.AAS.1 rd@rc,rb	→	G.XXX rd@rc,rb
G.ADD.1 rd=rc,rb	→	G.XOR rd=rc,rb
G.AND rd=rc,rb	←	G.BOOLEAN rd@rc,rb,0b10001000
G.ANDN rd=rc,rb	←	G.BOOLEAN rd@rc,rb,0b01000100
G.BOOLEAN rd@rb,rc,i	→	G.BOOLEAN rd@rc,rb,i7i5i6i4i3i1i2i0
G.COPY rd=rc	←	G.BOOLEAN rd@rc,rc,0b10001000
G.NAAA. rd@rc,rb	←	G.BOOLEAN rd@rc,rb,0b01111111
G.NAND rd=rc,rb	←	G.BOOLEAN rd@rc,rb,0b01110111
G.NOOR rd@rc,rb	←	G.BOOLEAN rd@rc,rb,0b00000001
G.NOR rd=rc,rb	←	G.BOOLEAN rd@rc,rb,0b00010001
G.NOT rd=rc	←	G.BOOLEAN rd@rc,rc,0b00010001
G.NXXX rd@rc,rb	←	G.BOOLEAN rd@rc,rb,0b01101001
G.OOR rd@rc,rb	←	G.BOOLEAN rd@rc,rb,0b11111110
G.OR rd=rc,rb	←	G.BOOLEAN rd@rc,rb,0b11101110
G.ORN rd=rc,rb	←	G.BOOLEAN rd@rc,rb,0b11011101
G.SAA.1 rd@rc,rb	→	G.XXX rd@rc,rb
G.SAS.1 rd@rc,rb	→	G.XXX rd@rc,rb
G.SET rd	←	G.BOOLEAN rd@rd,rd,0b10000001
G.SET.AND.E.1 rd=rb,rc	→	G.NAND rd=rc,rb
G.SET.AND.NE.1 rd=rb,rc	→	G.AND rd=rc,rb
G.SET.E.1 rd=rb,rc	→	G.XNOR rd=rc,rb
G.SET.G.1 rd=rb,rc	→	G.ANDN rd=rc,rb
G.SET.G.U.1 rd=rb,rc	→	G.ANDN rd=rb,rc
G.SET.G.Z.1 rd=rc	→	G.ZERO rd
G.SET.GE.1 rd=rb,rc	→	G.ORN rd=rc,rb
G.SET.GE.Z.1 rd=rc	→	G.NOT rd=rc

Fig. 31A (cont'd)

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G.SET.L.1 rd=rb,rc	→	G.ANDN rd=rb,rc
G.SET.L.Z.1 rd=rc	→	G.COPY rd=rc
G.SET.LE.1 rd=rb,rc	→	G.ORN rd=rb,rc
G.SET.LE.U.1 rd=rb,rc	→	G.ORN rd=rc,rb
G.SET.LE.Z.1 rd=rc	→	G.SET rd
G.SET.NE.1 rd=rb,rc	→	G.XOR rd=rc,rb
G.SET.GE.U.1 rd=rb,rc	→	G.ORN rd=rb,rc
G.SET.L.U.1 rd=rb,rc	→	G.ANDN rd=rc,rb
G.SSA.1 rd@rc,rb	→	G.XXX rd@rc,rb
G.SSS.1 rd@rc,rb	→	G.XXX rd@rc,rb
G.SUB.1 rd=rc,rb	→	G.XOR rd=rc,rb
G.XNOR rd=rc,rb	←	G.BOOLEAN rd@rc,rb,0b10011001
G.XOR rd=rc,rb	←	G.BOOLEAN rd@rc,rb,0b01100110
G.XXX rd@rc,rb	←	G.BOOLEAN rd@rc,rb,0b10010110
G.ZERO rd	←	G.BOOLEAN rd@rd,rd,0b00000000

Selection

operation	function (binary)	function (decimal)
d	11110000	240
c	11001100	204
b	10101010	176
d&c&b	10000000	128
(d&c) b	11101010	234
d c b	11111110	254
d?c:b	11001010	202
d^c^b	10010110	150
~d^c^b	01101001	105
0	00000000	0

Fig. 31A (cont'd)